

=> b reg  
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STRUCTURE FILE UPDATES: 23 JUL 2007 HIGHEST RN 943188-87-2  
 DICTIONARY FILE UPDATES: 23 JUL 2007 HIGHEST RN 943188-87-2

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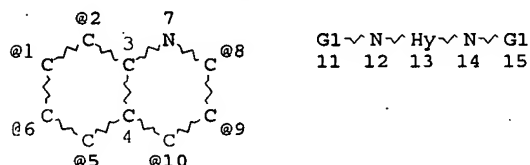
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d que sta l7  
 L1 STR



VAR G1=8/9/10/5/6/1/2  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E4 C E2 N AT 13

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE  
 L7 44 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 856075 ITERATIONS  
 SEARCH TIME: 00.00.06

44 ANSWERS

=> b hcap  
 FILE 'HCAPLUS' ENTERED AT 13:06:21 ON 24 JUL 2007  
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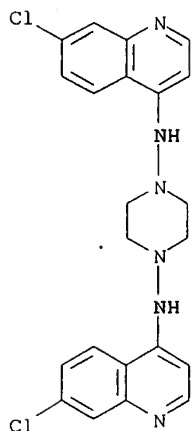
FILE COVERS 1907 - 24 Jul 2007 VOL 147 ISS 5  
 FILE LAST UPDATED: 23 Jul 2007 (20070723/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitstr l13 tot

L13 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1971:435658 HCAPLUS  
 DN 75:35658  
 TI Antimalarials. "Distal" hydrazine derivatives of 7-chloroquinoline  
 AU Singh, Tara; Hoops, John F.; Biel, John H.; Hoya, Wallace K.; Stein, Robert George; Cruz, Deanna R.  
 CS Res. Lab., Aldrich Chem. Co., Inc., Milwaukee, WI, USA  
 SO Journal of Medicinal Chemistry (1971), 14(6), 532-5  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DT Journal  
 LA English  
 GI For diagram(s), see printed CA Issue.  
 AB 7-Chloroquinolines (I) containing a hydrazine feature in the side chain attached at position 4, were prepared from 4,7-dichloroquinoline and 7-chloro-4-(3-bromo-1-methylpropylamino)quinoline by reacting with the required hydrazine, and were tested for the antimalarial activity against Plasmodium berghei in mice. 1,4-Bis(7-chloro-4-quinolylamino)-piperazine was the best, in which the end NH2 was substituted by a 2nd mol. of 7-chloroquinoline. It showed curative activity at 40 mg/kg, i.p., without toxicity even up to the maximum dose of 640 mg/kg. The I with a distal hydrazine, excluding active 1-[2-(7-chloro-4-quinolinylamino) - 2 - methylethyl] - 1 - methylhydrazine, were inactive, but were highly toxic. The I having a hydrazinium bromide feature, although found curative, were also quite toxic.  
 IT 23512-27-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 23512-27-8 HCAPLUS  
 CN 1,4-Piperazinediamine, N,N'-bis(7-chloro-4-quinoliny)- (9CI) (CA INDEX NAME)



L13 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 1970:3335 HCAPLUS  
 DN 72:3335  
 TI Antimalarial substances. XVIII. Synthetic schistosomicides. 13.  
 Antimalarial and antischistosomal effects of proximal hydrazine and hydroxylamine analogs of chloroquine and quinacrine  
 AU Elslager, Edward F.; Tendick, Frank H.; Werbel, Leslie M.; Worth, Donald F.  
 CS Med. and Sci. Affairs Div., Parke, Davis and Co., Ann Arbor, MI, USA  
 SO Journal of Medicinal Chemistry (1969), 12(5), 970-4  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DT Journal

LA English

GI For diagram(s), see printed CA Issue.

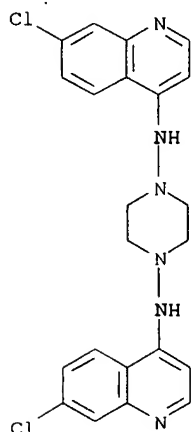
AB Representative 4-(2,2-dialkylhydrazino)quinolines, 6-chloro-9-(2,2-dialkylhydrazino)-2-methoxyacridines, 12-(2,2-dialkylhydrazino)benz[b]acridines, 2,2'-(benz[c]acridin-7-ylhydrazono)diethanol, 7-chloro-4-[2-(dialkylamino)ethoxyamino]quinolines, and 6-chloro-9-[2-(dimethylamino)ethoxyamino]-2-methoxyacridine were synthesized to enable an assessment of the antiparasitic effects conferred by substituting a hydrazine or hydroxylamine moiety for the proximal amine function of chloroquine, quinacrine, and 7-[3-(octylamino)propylamino]benz[c]acridine relatives. The compds. were isolated in 3-92% yield by the condensation of 4,7-dichloroquinoline, 4-chloro-6-methoxyquinoline, 4-chloro-6-methoxyquinaldine, 6,9-dichloro-2-methoxyacridine, 12-chlorobenz[b]acridine, or 7-chlorobenz[c]acridine with the appropriate 1,1-dialkylhydrazine or 2-(dialkylamino)ethoxyamine in phenol or EtOH. Among them, 6-methoxy-4-(morpholinoamino)-quinaldine exhibited modest activity against *Schistosoma mansoni* in mice and effected a 28-51% reduction of live worms at drug-diet doses of 224-303 mg./kg. daily for 14 days. Six compds. were active against a normal strain of *Plasmodium berghei* in mice at doses ranging from 2.7-219 mg./kg./day for 6 days. 7-Chloro-4-(4-methyl-1-piperazinylamino)quinoline, and 4,4'-(1,4-piperazinediimino)bis[7-chloroquinoline] (I) were approx. 28 and 27 times as potent as quinine, resp., against *P. berghei*, but I was highly cross-resistant with chloroquine. Structure-activity relations are discussed.

IT 23512-27-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 23512-27-8 HCAPLUS

CN 1,4-Piperazinediamine, N,N'-bis(7-chloro-4-quinolinyl)- (9CI) (CA INDEX NAME)



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(FILE 'HCAPLUS' ENTERED AT 11:18:23 ON 24 JUL 2007)  
DEL HIS Y

FILE 'REGISTRY' ENTERED AT 11:36:22 ON 24 JUL 2007

L1 STR  
L2 0 L1

FILE 'HCAPLUS' ENTERED AT 11:39:10 ON 24 JUL 2007

L3 1 (US20040053966 OR US6645964)/PN OR (US2003-658394 OR FR2000-105

FILE 'REGISTRY' ENTERED AT 11:42:58 ON 24 JUL 2007

L4 FILE 'HCAPLUS' ENTERED AT 11:42:58 ON 24 JUL 2007  
TRA L3 1- RN : 73 TERMS

FILE 'REGISTRY' ENTERED AT 11:42:58 ON 24 JUL 2007

L5 73 SEA L4  
L6 2 L5 AND (NC2NC2 OR N2C4 OR NCNC3)/ES  
L7 44 L1 FULL  
SAV TEM J394C1/A L7

FILE 'HCAPLUS' ENTERED AT 12:58:21 ON 24 JUL 2007

L8 11 L7  
L9 1 L8 AND L3  
L10 10 L8 NOT L9  
SEL HIT RN L10 6-10

FILE 'REGISTRY' ENTERED AT 13:00:13 ON 24 JUL 2007

L11 5 E27-31

FILE 'STNGUIDE' ENTERED AT 13:01:14 ON 24 JUL 2007

FILE 'REGISTRY' ENTERED AT 13:03:34 ON 24 JUL 2007

L12 1 L11 AND C22H20CL2N6

FILE 'HCAPLUS' ENTERED AT 13:04:39 ON 24 JUL 2007

L13 2 L12

FILE 'HCAOLD' ENTERED AT 13:05:20 ON 24 JUL 2007

L14 0 L7

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